



GAGE-6

ATGCGGCCCGAGCAGTTCAGTGATGAAGTG

GAACCAGCAACACCTGAAGAAGGGGAACCA

GCAACTCAACGTCAGGATCCTGCAGCTGCT

Of GAGE-1 N GAGE-2 SGAGE-3

CAGGAGGGAGGATGAGGGAGCATCTGCA

GAGE-6 GAGE-5

> CAGGAGGAGGATGAGGGAGCATCTGCA CAGGAGGAGGATGAGGGAGCATCTGCA

CAGGAGGGAGGATGAGGGAGCATCTGCA

GGTCAAGGGCCGAAGCCTGAAGCTGATAGC

GGTCAAGGGCCGAAGCCTGAAGCT

CAGGAGGGAGGATGAGGGAGCATCTGCA GGTCAAGGGCCGAAGCCTGAAGCT CAGGAGGGAGGATGAGGGAGCATCTGCA GGTCAAGGGCCGAAGCCTGAAGCTC

GAGE-4

GAGE-1 GAGE-2 GAGE-3 GAGE-4 GAGE-5 GAGE-6	GAGE-1 GAGE-2 GAGE-3 GAGE-4 GAGE-5 GAGE-6
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TCTGTGTGAAANATATGAGTTGGCGAGGAAGA TCGACCTATCGGCCTAGACCAAGACGC TACGTAGAGCCTCCTGAAATGATTGGGCCT 1 TCTGTGTGAAANATATGAGTTGGCGAGGAAGA TCGACCTATCGGCCTAGACCAAGACGC TACGTAGAGCCTCCTGAAATGATTGGGCCT 1 TTCACACACAGATGAATCTCAGTAGAGGAAAA TCGACCTATTATTGGCCTAGACCAAGGCGC TATGTACAGCCTCCTGAAATGATTGGGCCT 1 TCTGTGTGAAANATGAGTTGGCGAGGAAGA TCGACCTATTATTGGCCTAGACCAAGGCGC TATGTACAGCCTCCTGAAATGATTGGGCCT 1 TCTGTGTGTGAAANATGTGAGTTGGCGAGGAAGA TCGACCTATTATTGGCCTAGACCAAGGCGC TATGTACAGCCTCCTGAAGTGATTGGGCCT 1 TCTGTGTGTGAAANATATGAGTTGGCGAAGA TCGACCTATTATTGGCCTAGACCAAGGCGC TATGTACAGCCTCCTGAAGTGATTGGGCCT 1	
TCGACCTATCGGCCTAGACCAAGACGC TCGACCTATCGGCCTAGACCAAGACGC TCGACCTATTATTGGCCTAGACCAAGGCGC TCGACCTATTATTGGCCTAGACCAAGGCGC TCGACCTATTATTGGCCTAGACCAAGGCGC TCGACCTATTATTGGCCTAGACCAAGGCGC	
CGC TACGTAGAGCCTCCTGAAATGATTGGGCCT 1 CGC TACGTAGAGCCTCCTGAAATGATTGGGCCT 1 CGC TATGTACAGCCTCCTGAAATGATTGGGCCT 1 CGC TATGTACAGCCTCCTGAAATGATTGGGCCT 1 CGC TATGTACAGCCTCCTGAAGTGATTGGGCCT 1 CGC TATGTACAGCCTCCTGAAGTGATTGGGCCT 1	CCG TCCGGACTCTTTTTTCCTCTACTGAGATTCA CCG TCCGGACTCTTTTTTCCTCTACTGAGATTCA CCG TCCGGACTCTTTTTTCCTCGCCAACTCATAT CCG TCCGGACTCTTTTTTCCTCTACTGAGATTCA CCG TCCGGACTCTTTTTTCCTCTACTGAGATTCA CCG TCCGGACTCTTTTTTCCTCTACTGAGATTCA CCG TCCGGACTCTTTTTTCCTTCTACTGAGATTCA
GAAATGATTGGGCCT GAAATGATTGGGCCT GAAATGATTGGGCCT GAAATGATTGGGCCT GAAATGATTGGGCCT GAAGTGATTGGGCCT	CTCTACTGAGATTCA CTCTACTGAGATTCA CTCGCCAACTCATAT CTCTACTGAGATTCA CTCTACTGAGATTCA CTCTACTGAGATTCA CTCTACTGAGATTCA
7 7	

GAGE-1 GAGE-5 GAGE-3 GAGE-2 GAGE-4 ATGCGGCCCGAGCAGTTCAGTGATGAAGTG ATGCGGCCCGAGCAGTTCAGTGATGAAGTG ATGCGGCCCGAGCAGTTCAGTGATGAAGTG ATGCGGCCCGAGCAGTTCAGTGATGAAGTG ATGCGGCCCGAGCAGTTCAGTGATGAAGTG **VDE 43** GAACCAGCAACACCTGAAGAAGGGGGAACCA GAACCAGCAACACCTGAAGAAGGGGAACCA GAACCAGCAACACCTGAAGAAGGGGGAACCA GAACCAGCAACACCTGAAGAAGGGGAACCA GAACCAGCAACACCTGAAGAAGGGGGAACCA GCAACTCAACGTCAGGATCCTGCAGCTGCT GCAACTCAACGTCAGGATCCTGCAGCTGCT GCAACTCAACGTCAGGATCCTGCAGCTGCT GCAACTCAACGTCAGGATCCTGCAGCTGCT GCAACTCAACGTCAGGATCCTGCAGCTGCT

GGTCAAGGGCCGAAGCCTGAAGCTGATAGC

GGTCAAGGGCCGAAGCCTGAAGCTGATAGC GATAGC ATAGC ATAGC CAGGAACAGGGTCACCCACAGACTGGGTGT CAGGAACAGGGTCACCCACAGACTGGGTGT CAGGAACAGGGTCACCCACAGACTGGGTGT CAGGAACAGGGTCACCCACAGACTGGGTGT

CAGGAACAGGGTCACCCACAGACTGGGTGT

CAGGAACAGGGTCACCCACAGACTGGGTGT

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CCTATGTTGGAAAATTTCTTCATTGAAGTTC CCTATGTTGGAAAATTTGTTCATTAAAATTTC CCTATGTTGGAAAATTTGTTCATTAAAATTTC CCTATGTTGGAAAATTTGTTCATTAAAATTTC CCTATGTTGGAAAATTTGTTCATTAAAATTTC CCTATGTTGGAAAATTTTGTTCATTAAAAATTTC	GGCGAGAGACCGTTTAGTTCCTATCATCTG	GTTGCCCAGACTGGGATTCTCTGGCTTTTA	GAGTGTGAAGATGGTCCTGATGGGCAGGAG GAGTGTGAAGATGGTCCTGATGGGCAGGAG GAGTGTGAAGATGGTCCTGATGGGCAGGAG GAGTGTGAAGATGGTCCTGATGGGCAGGAG GAGTGTGAAGATGGTCCTGATGGGCAGGAG GAGTGTGAAGATGGTCCTGATGGGCAGGAG	X
TIGGA TIGGA TIGGA TIGGA TIGGA	AGACCO	CAGACT	AAGAT AAGAT AAGAT AAGAT AAGAT AAGAT	VD.
AAATTTTAAATTTTTAAATTTTTTAAATTTTTTAAATTTT	GTTTA	GGGA	GGTCC GGTCC GGTCC GGTCC	VDE 24
CTTCA GTTCA GTTCA GTTCA GTTCA	GTTTCC'	TOTO:	TGATG TGATG TGATG TGATG	
TIGAA TIAAA TAATI TAATIT	TATCA	RGGCT	GGCAG GGCAG GGCAG GGCAG GGCAG	
ATTC ATTC ATTC ATTC			97 11 31	
TCCCA TCCCA TCCCA TCCCA TCCCA	TGGCATGTGAAAGGCAATCAGTGAAAAGCAATCAGTGAAAAGCAATCAGTGAAAAGCAATCAGTGAAAAGCAATCAGTGAAAAGCAATCA	ATGAACAATTGCTTCTTAAATCTTTCCCCA	ATGGACCCGCCAAATCCAGAG ATGGACCCGCCAAATCCAGAG ATGGACCCGCCAAATCCAGAG ATGGACCCGCCAAATCCAGAG ATGGACCCGCCAAATCCAGAG	
TCCCAATAAAGCTTTACAGC TCCCAATAAAGCTTTACAGC TCCCAATAAAGCTTTACAGC TCCCAATAAAGCTTTACAGC TCCCAATAAAGCTTTACAGC TCCCAATAAAGCTTTACAGC	TGTGA -GTGA -GTGA -GTGA -GTGA -GTGA	CAATT	200000 2000000000000000000000000000000	
GCTTT GCTTT GCTTT GCTTT	GTGAAAGGCAATCAGGTGAAAAGCAATCAGGTGAAAAAGCAATCAGGTGAAAAAGCAATCAGGTGAAAAAAGCAATCAGGTGAAAAAGCAATCAGGTGAAAAAGCAATCAG	3CTTC	AAATC AAATC AAATC AAATC AAATC	
ACAGC ACAGC ACAGC ACAGC ACAGC ACAGC	AATCA AATCA AATCA AATCA AATCA AATCA	PTAAA:	CAGAC CAGAC CAGAC CAGAC CAGAC	
CTTCT CTTCT CTTCT CTTCT CTTCT	CAGTGTT CAGTGTT CAGTGTT CAGTGTT CAGTGTT CAGTGTT	PCTTT	GAGGTGAAA GAGGTGAAA GAGGTGAAA GAGGTGAAA GAGGTGAAA GAGGTGAAA	
CTTCTGCAAA CTTCTGCAAA CTTCTGCAAA CTTCTGCAAA CTTCTGCAAA	CAGTGTTAAA CAGTGTTAAA CAGTGTTAAA CAGTGTTAAA CAGTGTTAAA CAGTGTTAAA	CCCCA	GAAA GAAA GAAA GAAA GAAA	
	1	CGGA	ACGCC ACGCC ACGCC ACGCC	
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AAAA AAAA AAAA AAAA AAAA	GCTGA GTTGA GTTGA GTTGA GTTGA	rejero	JAAGAGA JAAG JAAG JAAG JAAG	
	AATGA AATGA AATGA AATGA AATGA AATGA	GACTG	ATGAC	
	TGCAG TGCAG TGCAG TGCAG TGCAG	AAATA'	GTCTC	
	AGAAGACATGCTGAAATGTTGCAGGCTGCT AGAAGACAGGTTGAAATGATGCAGGCTGCT AGAAGGCACGTTGAAATGATGCAGGCTGCT AGAAGGCACGTTGAAATGATGCAGGCTGCT AGAAGGCACGTTGAAATGATGCAGGCTGCT AGAAGGCACGTTGAAATGATGCAGGCTGCT	CGGAAACCTGAGTGACTGAAATATCAAAT	ACGCCTGAAGAAGATGAGGTCTCACTAT ACGCCTGAAGAAG ACGCCTGAAGAAG ACGCCTGAAGAAG ACGCCTGAAGAAG ACGCCTGAAGAAG ACGCCTGAAGAAG	
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3 \GAGE-6 **30** GAGE-5

SQEQGHPQTGCECEDGPDGQEVDP

SQEQGHPQTGCECEDGPDGQEMPP

PNPEEVKTPEEGEKQSQC--PNPEEVKTPEEGEKQSQC---

PNPEEVKTPEEGEKQSQC--PNPEEVKTPEEGEKQSQC----

SQEQGHPQTGCECEDGPDGQEMDP

& GAGE-3 GAGE-4

GAGE-1 GAGE-2

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*SOEOGH POT GCECEDG PDGQEM SQEQGHEQTGCECEDGEDGQEMDF

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GAGE-2 GAGE-3 GAGE-4 GAGE-5 GAGE-6	AGE-

)	AGE-4	AGE-3	AGE-2	AGE-1	
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RERERRYNEEPE

PRPRRYVOPPEVII PRPRRYVEPPE

Antigenic Peptide

PRPRRYVOPPEMI GPMRPEQFSDEVEPATPEEGEPATQ GPMRPEQFSDEVEPATPEEGEPATQ RODPAAAQEGEDEGASAGQGPKPEA RQDPAAAQEGEDEGASAGQGPKPEA

GPMRPEQFSDEVEPATPEEGEPATQ GPMRPEQFSDEVEPATPEEGEPATQ GPMRPEQFSDEVEPATPEEGEPATQ GPMRPEQFSDEVEPATPEEGEPATQ

RQDPAAAQEGEDEGASAGQGPKPEA RQDPAAAQEGEDEGASAGQGPKPEA RQDPAAAQEGEDEGASAGQGPKPEA RQDPAAAQEGEDEGASAGQGPKPEA

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FIG. 6



